

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	55620	((filter\$3 or input\$4) with (tree or hierarch\$3 or structur\$3)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:43
L2	2944	L1 and ((tree or hierarch\$\$) with structur\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:43
L3	261	L1 and (filter\$3 with (tree or hierarch\$\$) with structur\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:44
L4	217736	((match\$3 or compar\$3 or map\$4) with (tree or hierarch\$3 or structur\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:45
L5	89	3 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:44
L6	3906	((match\$3 or compar\$3 or map\$4) with node with (tree or hierarch\$3 or structur\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:53
L7	16	5 and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:48
L8	10	7 and @ad<"20040218"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:54

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L9	4259	((match\$3 or compar\$3 or map\$4) with filter\$3 with (tree or hierarch\$3 or structur\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:54
L10	14	1 and 6 and 9 and @ad<"20040218"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:59
L11	194	((match\$3 or compar\$3 or map\$4) near filter\$3 near (tree or hierarch\$3 or structur\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:55
L12	2	10 and 11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:55
L13	33	1 and 11 and @ad<"20040218"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 10:00
L14	12104	13 abd (travers\$3 with filter with (tree or hierarch\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 10:01
L15	1	13 and (travers\$3 with filter with (tree or hierarch\$4))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 10:09
L16	1	13 and (707/3).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 10:10

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L17	2	13 and (707/2).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 10:10
L18	0	13 and (707/100).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 10:10
L19	1	13 and (707/102).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 10:10
S1	2	("20030165160").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:41
S2	2	("20030204664").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 14:27
S3	2	("20040111519").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 14:27
S4	2	("20040249682").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 14:29
S5	2	("4628239").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 14:29

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S6	2	("5668987").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 14:30
S7	2	("6631374").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 14:30
S8	2	("6934699").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 14:31
S9	2	("7035846").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 14:32
S10	2	("20030123387").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 14:56
S11	55273	((filter\$3 or input\$4) with (tree or hierarch\$3 or structur\$3)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 15:00
S12	60801	(match\$3 with (tree or hierarch\$3 or structur\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:44
S13	182713	((match\$3 or compar\$3) with (tree or hierarch\$3 or structur\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 14:58

EAST Search History

S14	1801	S11 and S12	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 14:58
S15	9668	((filter\$3 or input\$4) with (match\$3 or compar\$3) with (tree or hierarch\$3 or structur\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 15:01
S16	1278	S14 and S15	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 15:00
S17	26536	((filter\$3) with (tree or hierarch\$3 or structur\$3)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 15:00
S18	445	S16 and S17	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 15:00
S19	3843	((filter\$3) with (match\$3 or compar\$3) with (tree or hierarch\$3 or structur\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 15:01
S20	440	S18 and S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 15:01
S21	66	(path with filter\$3) and S20	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 15:01

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S22	54	S21 and @ad<"20040218"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 15:49
S23	9	(travers\$3 with (tree or hierarch\$3)) and S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 15:49
S24	6	S23 and .@ad<"20040218"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 15:03
S25	23	(travers\$3 with (tree or hierarch\$3)) and S17 and S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 15:49
S26	17	S25 and @ad<"20040218"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/26 09:48
S27	2	("7181464").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 16:35
S28	1	"20050273772".PN.	US-PGPUB	OR	OFF	2007/05/04 16:36
S29	1	"20050198065".PN.	US-PGPUB	OR	OFF	2007/05/04 16:36
S30	3	S17 and S19 and (707/100).ccls. and @ad<"20040218"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 17:41
S31	9	S17 and S19 and (707/3).ccls. and @ad<"20040218"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/04 17:41

EAST Search History

S32	1	"785701".apn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 15:56
S33	0	"785701".apn. and (extract\$3 near match\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 15:56
S34	1	"785701".apn. and (extract\$3 with match\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/05/24 15:56

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filters [3]; while an alternative **tree structure** uses $2N$... **match errors** has been presented which offers similar performance ...ieeexplore.ieee.org/iel3/2220/13518/00621617.pdf?isnumber=&arnumber=621617 -[Similar pages](#)**Data structure using a tree bitmap and method for rapid ...**A trie element is that portion of a **tree structure** at a single node. ... 1) $m > 0$; $p > 0$: There is a **match** and a **path** to a Child Element. ...www.freepatentsonline.com/6728732.html - 70k - [Cached](#) - [Similar pages](#)**Systems and methods for filter processing using hierarchical data ...**The **filters** are maintained in a **tree structure** that is used to **match** ... **path** if the input satisfies a **filter** that is referenced by a **filter tree** node ...www.freepatentsonline.com/20050182756.html - 71k - [Cached](#) - [Similar pages](#)**Method and system for testing filter rules using caching and a ...**Method and system for testing **filter** rules using caching and a **tree structure** - US Patent 6529897 from Patent Storm. A method and system for testing a ...www.patentstorm.us/patents/6529897.html - 20k - [Cached](#) - [Similar pages](#)**System and method and computer program for filtering using tree ...**(b) generating a hardware **tree structure** from the software **tree** of act (a); ... the search **tree** to **filter** frames received from the communications network. ...www.patentstorm.us/patents/6298340-claims.html - 28k - [Cached](#) - [Similar pages](#)[[More results from www.patentstorm.us](#)]**Full-Text and Structural Indexing of XML Documents on B+-Tree ...**By using a node identifier in the search keys, we can retrieve only the entries that **match** the **path** information in the query. The STB-tree can **filter** nodes ...ietisy.oxfordjournals.org/cgi/content/abstract/E89-D/1/237 - [Similar pages](#)**[PDF] Full-Text and Structural Indexing of XML Documents on B -Tree**

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Treemaps for space-constrained visualization of hierarchies

It does take some learning for novices to grasp the **tree structure** layout in treemaps ...

Treemap 3.0 includes dynamic queries to **filter** out unwanted items, ...

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containing a nested **XPath** expression. Example of XPS Tree Structure ... Recording the **Match**. Why do we need to record matching? ...

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[XML and Scheme](#)

The XML Path Language, **XPath**, makes the **tree structure** of XML Infoset explicit, ... An SXPath expression may contain an arbitrary Scheme code as a **filter**. ...

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Node filters **match** elements whose tag name corresponds. to the value of the node **filter**. ... traversal graphs that reflect and exploit the **tree structure** ...

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[PDF] [XML Query Languages Why Query XML? XPath XPath Document Tree ...](#)

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<xsl:template match="XPath-expression" > ... tags, XSLT instructions ... </xsl:template> ...

Not stored as a string, but natively as a **tree structure**. ...

www.cs.sunysb.edu/~liu/cse391/sliXMLquery.pdf - [Similar pages](#)

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The result of calling new() is an **XPath** value of type Java Object; ... Note that Saxon's **tree structure** conforms to the DOM Core Level 2 interface. ...

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Note that Saxon's **tree structure** conforms to the DOM Core Level 2 interface. ... Rather than writing an output **filter** in Java, SAXON also allows you to ...

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DOM also requires its infoset - or internal **tree structure** of the source XML document. But it's slightly different than that used for **XPath**. ...

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[PPT] [Querying XML](#)

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XSLT templates are based on **XPath** "match"es, and we can also apply other ... "Append" the results of the matching template rule to the result **tree structure** ...

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By using a node identifier in the search keys, we can retrieve only the entries that **match** the path information in the query. The STB-tree can **filter** nodes ...

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encode the **tree structure** so that quite complex operations can be performed without accessing ... to satisfy the original **tree pattern match**, as well as ...

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filter tree match xpath exemplary hierarchy

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Systems and methods for filter processing using hierarchical data ...

[0025] In at least one implementation, a filter engine uses **XPath filters** and input ... 1 shows an **exemplary filter hierarchy** depicted by a **filter tree** 100. ...
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Techniques for information dissemination using tree pattern ...

7 shows pseudocode of an **exemplary** method for **tree pattern selectivity estimation**; ...
Similarly, although **tree patterns** using **XPath** are described herein, ...
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Overview

(It is actually a **hierarchy** of // objects that resembles the parse **tree**, but an application will ... @param expr a string that contains an **XPath** expression. ...
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[PDF] 3 Content-Based Models and Matching

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The **filters** that are reached, **match** the given notification. Figure 3.14 shows an **exemplary decision tree**. The **tree** contains the **filters F** ...
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[PDF] 9 Existing Notification Services

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cannot reflect any **hierarchy** because their traffic is completely separated. ... cover all other **filters**. If a visited filter does not **match**, then no child ...
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From mailinglist at bitmead.com Wed May 1 02:39:52 2002 From ...

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XPath does not define a general rule, it simply defines what the text value is ... Shouldn't the **filter match**? -jh- From jhunter at servlets.com Fri May 10 ...
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Schema Languages & Internationalization Issues: A survey Extreme ...

XML Schema, a single type **tree grammar**. It allows for the declaration of elements with ...
XML Path Language (XPath) 2.0. W3C Working Draft 04 April 2005. ...
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File system with access and retrieval of XML documents - US Patent ...

Bio-informatics is an **exemplary** rapidly growing field in which ... A **hierarchy** 172 forms a **tree structure**. A single master index 174 may be stored in a ...
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Impose-t-on la conformité à la recommandation **XPATh** comme valeur de ces attributs? ...
will become additional parts of this standard (as **exemplary** TMLs). ...
www.loria.fr/projets/TMF/DOC/MISC/PACK_ISO/96/N405v001112.doc - [Similar pages](#)

Schema Languages & Internationalization Issues: A survey

Impact on processing chains: **XPath** expressions which rely on an element with ... with
respect to namespaces mechanism etc. only serve **exemplary** purposes. ...
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Relevance scale **1 XML: Composite events for xml**

 Martin Bernauer, Gerti Kappel, Gerhard Kramler

May 2004 **Proceedings of the 13th international conference on World Wide Web
WWW '04**

Publisher: ACM Press

Full text available:  [pdf\(183.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recently, active behavior has received attention in the XML field to automatically react to occurred events. Aside from proprietary approaches for enriching XML with active behavior, the W3C standardized the Document Object Model (DOM) Event Module for the detection of events in XML documents. When using any of these approaches, however, it is often impossible to decide which event to react upon because not a single event but a combination of multiple events, i.e., a composite event determines a ...

Keywords: active behavior, composite event, event algebra, event-condition-action rule, xml

2 Sequencing XML data and query twigs for fast pattern matching

 Praveen Rao, Bongki Moon

March 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(582.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a new way of indexing XML documents and processing twig patterns in an XML database. Every XML document in the database can be transformed into a sequence of labels by prüfer's method that constructs a one-to-one correspondence between trees and sequences. During query processing, a twig pattern is also transformed into its Prüfer sequence. By performing subsequence matching on the set of sequences in the database and performing a series of refinement phases that we have dev ...

Keywords: XML indexing, prüfer sequences, twig query processing

3 Paper session 3: data dissemination: Semantic multicast for content-based stream

 [dissemination](#)

Olga Papaemmanouil, Uğur Çetintemel

June 2004 Proceedings of the 7th International Workshop on the Web and Databases: colocated with ACM SIGMOD/PODS 2004 WebDB '04

Publisher: ACM Press

Full text available:  pdf(271.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

We consider the problem of content-based routing and dissemination of highly-distributed, fast data streams from multiple sources to multiple receivers. Our target application domain includes real-time, stream-based monitoring applications and large-scale event dissemination. We introduce *SemCast*, a new semantic multicast approach that, unlike previous approaches, eliminates the need for content-based forwarding at interior brokers and facilitates fine-grained control over the constructio ...

4 Path sharing and predicate evaluation for high-performance XML filtering 

 Yanlei Diao, Mehmet Altinel, Michael J. Franklin, Hao Zhang, Peter Fischer

December 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 4

Publisher: ACM Press

Full text available:  pdf(543.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML filtering systems aim to provide fast, on-the-fly matching of XML-encoded data to large numbers of query specifications containing constraints on both structure and content. It is now well accepted that approaches using event-based parsing and Finite State Machines (FSMs) can provide the basis for highly scalable structure-oriented XML filtering systems. The XFilter system [Altinel and Franklin 2000] was the first published FSM-based XML filtering approach. XFilter used a separate FSM per pa ...

Keywords: Nondeterministic Finite Automaton, XML filtering, content-based matching, nested path expressions., path sharing, predicate evaluation, structure matching

5 An XML query engine for network-bound data 

Zachary G. Ives, A. Y. Halevy, D. S. Weld

December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(351.86 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are a also re ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

6 XIRQL: An XML query language based on information retrieval concepts 

 Norbert Fuhr, Kai Großjohann

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2

Publisher: ACM Press

Full text available:  pdf(281.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness for both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1)

document ranking based on index term weighting, (2) specificity-oriented search for retrieving the most relevant parts of documents, (3) datatypes with vague predicates for dealing with specific types of content and (4) structural vagueness f ...

Keywords: Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

7 [XML-based document structure and analysis: Filtering XML documents using XPath expressions and aspect-oriented programming](#)



Ermir Qeli, Bernd Freisleben

October 2006 **Proceedings of the 2006 ACM symposium on Document engineering DocEng '06**

Publisher: ACM Press

Full text available: [pdf\(120.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present the design and implementation of a filtering approach for XML documents which is based on XPath expressions and Aspect-Oriented Programming (AOP). The class of XPath expressions used allows for branching, wildcards and descendant relationships between nodes. For the embedding of simple paths into XPath expressions, a dynamic programming approach is proposed. The AOP paradigm, which provides a means for encapsulating crosscutting concerns in software, is introduced to in ...

Keywords: SAX, XML, XPath, aspect-oriented programming

8 [Research session: query optimization #2: Stack-based algorithms for pattern matching on DAGs](#)



Li Chen, Amarnath Gupta, M. Erdem Kurul

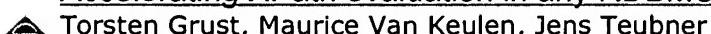
August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: [pdf\(422.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Existing work for query processing over graph data models often relies on pre-computing the transitive closure or path indexes. In this paper, we propose a family of stack-based algorithms to handle path, twig, and dag pattern queries for directed acyclic graphs (DAGs) in particular. Our algorithms do not precompute the transitive closure nor path indexes for a given graph, however they achieve an optimal runtime complexity quadratic in the average size of the query variable bindings. We prove t ...

9 [Accelerating XPath evaluation in any RDBMS](#)



Torsten Grust, Maurice Van Keulen, Jens Teubner

March 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: [pdf\(781.01 KB\)](#) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This article is a proposal for a database index structure, the *XPath accelerator*, that has been specifically designed to support the evaluation of XPath path expressions. As such, the index is capable to support all XPath axes (including ancestor, following, preceding-sibling, descendant-or-self, etc.). This feature lets the index stand out among related work on XML indexing structures which had a focus on the child and descendant axes only. The index has been designed with a close ...

Keywords: Main-memory databases, XML, XML indexing, XPath

10 Articulating information needs in XML query languages

 Jaap Kamps, Maarten Marx, Maarten de Rijke, Börkur Sigurbjörnsson
October 2006 **ACM Transactions on Information Systems (TOIS)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  pdf(318.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document-centric XML is a mixture of text and structure. With the increased availability of document-centric XML documents comes a need for query facilities in which both structural constraints and constraints on the content of the documents can be expressed. How does the expressiveness of languages for querying XML documents help users to express their information needs? We address this question from both an experimental and a theoretical point of view. Our experimental analysis compares a stru ...

Keywords: Full-text XML querying, XML retrieval, XPath

11 Transformations and Experiences: VXT: a visual approach to XML transformations

 Emmanuel Pietriga, Jean-Yves Vion-Dury, Vincent Quint
November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering DocEng '01**

Publisher: ACM Press

Full text available:  pdf(165.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The domain of XML transformations is becoming more and more important as a result of the increasing number of applications adopting XML as their format for data exchange or representation. Most of the existing solutions for expressing XML transformations are textual languages, such as XSLT or DOM combined with a general-purpose programming language. Several tools build on top of these languages, providing a graphical environment. Transformations are however still specified in a textual way using ...

Keywords: XML transformations, XSLT, circus, visual programming languages, zoomable user interfaces

12 Research sessions: path indexing: Accelerating XPath location steps

 Torsten Grust
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available:  pdf(1.12 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This work is a proposal for a database index structure that has been specifically designed to support the evaluation of XPath queries. As such, the index is capable to support all XPath axes (including ancestor, following, preceding-sibling, descendant-or-self, etc.). This feature lets the index stand out among related work on XML indexing structures which had a focus on regular path expressions (which correspond to the XPath axes children and descendant-or-self plus name tests). I ...

13 Publish/subscribe: An ontology-based publish/subscribe system

Jinling Wang, Beihong Jin, Jing Li
October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware Middleware '04**

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(443.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Expressiveness and matching efficiency are two key design goals of publish/subscribe systems. In this paper, we introduce the Semantic Web technologies into the publish/subscribe system and propose an ontology-based publish/subscribe (OPS) system. The system can make use of the semantic of events to match events with subscriptions, and can support events with complex data structure (such as graph structure). An efficient matching algorithm is proposed for the OPS system, which can match events w ...

14 XML-based document structure and analysis: Customizable detection of changes for

XML documents using XPath expressions

Ermir Qeli, Julinda Gllavata, Bernd Freisleben

October 2006 **Proceedings of the 2006 ACM symposium on Document engineering DocEng '06**

Publisher: ACM Press

Full text available:  pdf(122.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Change detection in XML documents is an important task in the context of query systems. In this paper, we present CustX-Diff, a customizable change detection approach for XML documents based on X-Diff [6]. CustX-Diff performs the change detection operation simultaneously with the XPath based filtering of XML document parts. The class of XPath expressions used is the *tree patterns* subset of XPath. For the embedding of simple paths into XPath expressions during the difference operation, a d ...

Keywords: XML, XPath, change detection

15 Papers from the 2003 international conference on Database theory: Processing XML

streams with deterministic automata and stream indexes

Todd J. Green, Ashish Gupta, Gerome Miklau, Makoto Onizuka, Dan Suciu

December 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 4

Publisher: ACM Press

Full text available:  pdf(717.00 KB) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We consider the problem of evaluating a large number of XPath expressions on a stream of XML packets. We contribute two novel techniques. The first is to use a single Deterministic Finite Automaton (DFA). The contribution here is to show that the DFA can be used effectively for this problem: in our experiments we achieve a constant throughput, independently of the number of XPath expressions. The major issue is the size of the DFA, which, in theory, can be exponential in the number of XPath expr ...

Keywords: XML processing, stream processing

16 Document structure and content analysis 2: Schema matching for transforming

structured documents

Aida Boukottaya, Christine Vanoirbeek

November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**

Publisher: ACM Press

Full text available:  pdf(441.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Structured document content reuse is the problem of restructuring and translating data structured under a source schema into an instance of a target schema. A notion closely

tied with structured document reuse is that of structure transformations. Schema matching is a critical step in structured document transformations. Manual matching is expensive and error-prone. It is therefore important to develop techniques to automate the matching process and thus the transformation process. In this paper ...

Keywords: document structure transformations, schema matching

- 17 Research sessions: Web, XML and IR: FleXPath: flexible structure and full-text querying for XML

 Sihem Amer-Yahia, Laks V. S. Lakshmanan, Shashank Pandit
June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data SIGMOD '04**

Publisher: ACM Press

Full text available:  pdf(437.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Querying XML data is a well-explored topic with powerful database-style query languages such as XPath and XQuery set to become W3C standards. An equally compelling paradigm for querying XML documents is full-text search on textual content. In this paper, we study fundamental challenges that arise when we try to integrate these two querying paradigms. While keyword search is based on approximate matching, XPath has exact match semantics. We address this mismatch by considering queries on structure ...

- 18 Code generation: Clearwater: extensible, flexible, modular code generation

 Galen S. Swint, Calton Pu, Gueyoung Jung, Wenchang Yan, Younggyun Koh, Qinyi Wu, Charles Consel, Akhil Sahai, Koichi Moriyama

November 2005 **Proceedings of the 20th IEEE/ACM international Conference on Automated software engineering ASE '05**

Publisher: ACM Press

Full text available:  pdf(236.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Distributed applications typically interact with a number of heterogeneous and autonomous components that evolve independently. Methodical development of such applications can benefit from approaches based on domain-specific languages (DSLs). However, the evolution and customization of heterogeneous components introduces significant challenges to accommodating the syntax and semantics of a DSL in addition to the heterogeneous platforms on which they must run. In this paper, we address the challenges ...

Keywords: AXpect, DSL, ISG, clearwater, code generation, infopipes

- 19 XSKETCH synopses for XML data graphs

 Neoklis Polyzotis, Minos Garofalakis
September 2006 **ACM Transactions on Database Systems (TODS)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available:  pdf(885.57 KB) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

Effective support for XML query languages is becoming increasingly important with the emergence of new applications that access large volumes of XML data. All existing proposals for querying XML (e.g., XQuery) rely on a pattern-specification language that allows (1) path navigation and branching through the label structure of the XML data graph, and (2) predicates on the values of specific path/branch nodes, in order to reach the desired data elements. Clearly, optimizing such queries ...

Keywords: XML, approximate query processing, data synopses, path expressions

20 Adaptive information extraction Jordi Turmo, Alicia Ageno, Neus CatalàJuly 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(986.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The growing availability of online textual sources and the potential number of applications of knowledge acquisition from textual data has lead to an increase in Information Extraction (IE) research. Some examples of these applications are the generation of data bases from documents, as well as the acquisition of knowledge useful for emerging technologies like question answering, information integration, and others related to text mining. However, one of the main drawbacks of the application of ...

Keywords: Information extraction, machine learning

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